

In re Application of: Philip R. Lichtman
Serial No.: 09/193,597

APPENDIX A TO AMENDMENT "B"

33. (Amended) A motorized focusing coupler device, said coupler device comprising:

a housing having a distal end and a proximal end and comprising (i) a first substantially straight bore having a distal end and a proximal end, (ii) first attaching means at said distal end of said housing for mechanically attaching said housing to an image capturing device, (iii) second attaching means at said proximal end of said housing for mechanically attaching said housing to an image receiving apparatus, (iv) a second bore in said housing, and (v) a cavity connecting said first and second bores;

a tubular lens carrier slidably disposed in said first bore for reciprocal movement along said first bore between a proximal-most position and a distal-most position, said lens carrier supporting at least one coaxially mounted focusing lens and a longitudinally-extending series of rack gear teeth;

a reversible electro-mechanical drive assembly mounted to said housing, said drive assembly having an output shaft extending into said second bore;

gear means connecting said output shaft to said series of rack gear teeth for selectively moving said lens carrier between its proximal-most and its distal-most positions in said bore in response to rotation of said output shaft, said gear means comprising a worm gear attached to said [free end of said] output shaft, and a helical pinion gear rotatably disposed in said cavity, with the teeth of said helical pinion gear in meshing engagement with the teeth of said worm gear and said rack gear teeth;

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whereby an image captured by said image capturing device and relayed by said at least one focusing lens may be focused on an image receiving device by movement of said lens carrier.

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